

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

1. (currently amended) A receiver Receiver for processing a received signal {SEQ}, said receiver being multimode, comprising characterized in that it comprises: a single RF chip for processing the received signal {SEQ} in any mode, said chip comprising a spreading section {SPREAD\_SEC} for spreading and down-converting to baseband the [[a]] received signal {SEQ} and a channel filtering section {CH\_SEC} for DC offsets rejection on the [[a]] received signal {SEQ}, and a single baseband chip [[[BB]]] comprising despreading means {DSPR} for despreading a spread signal {SEQ}.
2. (currently amended) The receiver ~~Receiver for processing a received signal~~ {SEQ} as claimed in claim 1, wherein ~~characterized in that~~ the spreading section {SPREAD\_SEC} is adapted to produce a spread spectrum oscillator [[[LO]]] and a spreading sequence [[[PN]]], in order to expand the bandwidth of a received signal {SEQ}.
3. (currently amended) The receiver ~~Receiver for processing a received signal~~ {SEQ} as claimed in claim 1, wherein ~~characterized in that~~ the spreading section {SPREAD\_SEC} further comprises unique rejection means {LPF3} for all the modes for suppressing the adjacent carrier frequencies of the associated received signals {SEQ}.

4. (currently amended) ~~The receiver~~ Receiver for processing a received signal {SEQ} as claimed in claim 1, ~~wherein~~ characterized in that the channel filtering section {CH\_SEC} is common for all the modes.
5. (currently amended) ~~The receiver~~ Receiver for processing a received signal {SEQ} as claimed in claim 1, ~~wherein~~ characterized in that the channel filtering section {CH\_SEC} comprises: a block of low-noise amplifier {LNA} and associated mixers {M1&M2} for each mode, and unique first rejection means {HPF1} for rejecting DC offsets on a spread received signal {SEQ} for any mode.
6. (currently amended) ~~The receiver~~ Receiver for processing a received signal {SEQ} as claimed in claim 5, ~~wherein~~ characterized in that the channel filtering section {CH\_SEC} further comprises adding means {ADD1,ADD2} for redirecting a spread received signal {SEQ} coming from a block of low-noise amplifier {LNA} and associated mixers {M1&M2} to the first rejection means {HPF1}.
7. (currently amended) ~~The receiver~~ Receiver for processing a received signal {SEQ} as claimed in claim 1, ~~wherein~~ characterized in that the baseband chip {BB\_INT} further comprises: channel filter coefficient banks {FIR} with associated filters {BB\_LPF} for each mode for rejecting adjacent carrier frequencies on the associated spread received signal {SEQ}, and a matching filter {HR} for producing the same distortion of a spread signal {SEQ} on a corresponding despreading sequence [{{(PN)}}].

8. (currently amended) The receiver ~~Receiver for processing a received signal~~ (SEQ) as claimed in claim 1, wherein ~~characterized in that~~ the despreading means (DSPR) comprise: a single multiplier ~~[[M]]~~, and a single correlator with integration and dump means ~~(I&D)~~.

9. (currently amended) The receiver ~~Receiver for processing a received signal~~ (SEQ) as claimed in claim 1, wherein ~~characterized in that~~ the baseband chip (BB\_INT) further comprises synchronization means (SYNC) for synchronizing a spread signal (SEQ) with a corresponding despreading sequence ~~[[PN]]~~.

10. (currently amended) A method for receiving a signal (SEQ) in any mode, comprising ~~characterized in that it comprises the steps of:~~ spreading and down-converting the received signal (SEQ) to baseband, rejecting the DC offsets on the received signal (SEQ), and despreading the spread signal (SEQ).

11. (currently amended) The ~~[[A]]~~ method for receiving a signal (SEQ) as claimed in claim 10, further comprising ~~characterized in that it comprises also a step of~~ producing a spread spectrum oscillator ~~[[LO]]~~ and a spreading sequence ~~[[PN]]~~ in order to expand the bandwidth of the received signal (SEQ).

12. (currently amended) A mobile ~~Mobile~~ phone comprising a receiver as claimed in claim 1.